

**Notice of Allowability**

Application No.

10/809,755

Examiner

Anthony T. Perry

Applicant(s)

KATO ET AL.

Art Unit

2879

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 2/15/07.
2. ☒ The allowed claim(s) is/are 1,2,4-6 and 8-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

***Response to Amendment***

The Amendment filed on 2/15/07, has been entered and acknowledged by the Examiner.

Cancellation of claims 22-28 has been entered.

***Allowable Subject Matter***

Claims 1-2, 4-6, and 8-21 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of Kusaka (US 6,201,346) teaches an organic EL device comprising a substrate (1) with a Peltier element (10) that is formed along a wire connecting the anode (2) to a drive circuit (8). Kusaka does not teach Peltier element including a heat absorbing electrode and heat radiating electrode, and therefor fails to disclose or fairly suggest an a heat absorbing electrode of a Peltier element serving as an electrode of the EL device or being directly connected to an electrode of the EL device. Kusaka also fails to teach a semiconductor region formed on the substrate and having Peltier elements and active driving elements formed in the semiconductor region.

The prior art of record fails to disclose or fairly suggest:

- An organic electroluminescent device comprising: a Peltier element that includes heat absorbing electrode and a heat radiating electrode, wherein the heat absorbing electrode serves as an electrode of the organic electroluminescence element or is directly connected to an electrode of the organic electroluminescence element, in combination with the remaining claimed

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limitations as called for in claim 1 (claims 2, 5-6, and 8-10 are allowable for the same reasons since they are dependent on claim 1);

- An organic electroluminescent device comprising: a substrate including a semiconductor region, wherein Peltier elements and active driving elements are formed in the semiconductor region; and organic electroluminescence elements are each arranged on or above one of the heat absorbing electrodes and electrically connected to one of the active driving elements, in combination with the remaining claimed limitations as called for in claim 11 (claims 12-17 are allowable for the same reasons since they are dependent on claim 11);
- An organic electroluminescent device comprising: a Peltier element that includes heat absorbing electrode and a heat radiating electrode, wherein the heat absorbing electrode serves as an electrode of the organic electroluminescence element or is directly connected to an electrode of the organic electroluminescence element, in combination with the remaining claimed limitations as called for in claim 18 (claims 19-21 are allowable for the same reasons since they are dependent on claim 18).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Contact Information

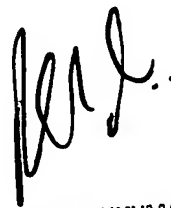
Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Anthony Perry* whose telephone number is (571) 272-2459. The examiner can normally be reached between the hours of 9:00AM to 5:30PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. **The fax phone number for this Group is (571) 273-8300.**

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Anthony Perry  
Patent Examiner  
Art Unit 2879  
March 01, 2007



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